

Practice

2. The mean life of iPhone batteries is less than 2 years.

Hypotheses:

Tail direction (explain):

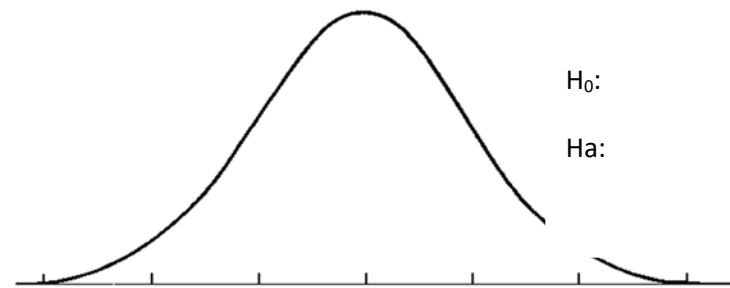
Potential Errors:

7.1 Part 2: Hypothesis Testing

Hypothesis Tests and P-values

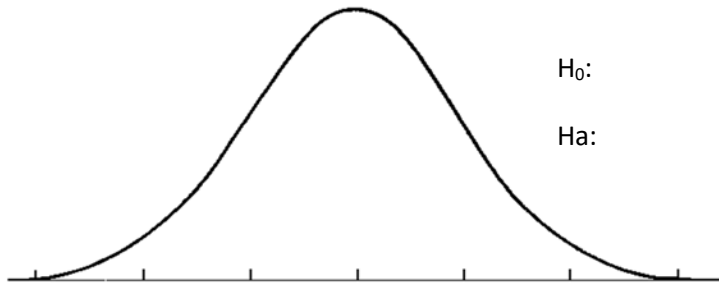
	Population Parameter	Test Statistic	Standardized Test Statistic
Proportions			
Means			
Variance			

If your alternative is less than the null hypothesis..



Hypothesis Tests and P-Values

If your alternative is greater than the null hypothesis...



If your alternative is not equal to the null hypothesis...



Practice

State your hypotheses and identify your claim. Determine if the test is left-tailed, right-tailed, or two-tailed. State your potential type 1 and type 2 errors.

1. Texting while driving The proportion of high school students who text while driving is 78%.

Hypotheses:

Tail direction (explain):

Potential Errors:

P-Values

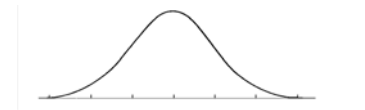
A **small** p-value is considered an **unusual** event. This gives us more evidence to **reject** the H_0 .

7 Steps to Perform a Hypothesis Test

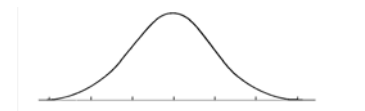
1.

2.

3.



4.

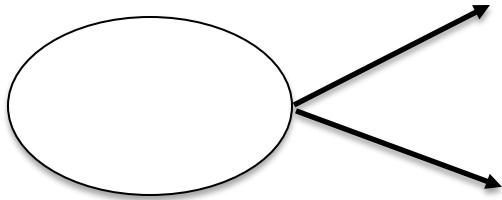


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Steps for Hypothesis Tests

5.

6.



7.

Practice

3. The proportion of teens that make more than \$8.50 an hour is less than 29%.

Hypotheses:

Tail direction (explain):

Potential Errors: